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JAN 21 2009

KAS-263

Serial No. 10/549,814

Amendment

Responsive to Office Action dated October 21, 2008

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims:

1. (Currently Amended) A diagnostic information presenting apparatus for a construction machine, comprising:

_____ detection means (40-46, 47a, 47b, 47e) for detecting status variables regarding operating status or ambient environments of a construction machine (1); and

~~control means (2) for outputting, to display means (50), a basic data display signal to display basic data necessary for a usual screen (100) in accordance with detected signals from said detection means (40-46, 47a, 47b, 47e), and for outputting, to said display means (50), an alarm display signal or a failure display signal to present alarm display or failure display in accordance with alarm information regarding the status variables detected by said detection means (40-46, 47a, 47b, 47e) or failure information from said detection means~~

a display unit for displaying a usual screen having a basic data display area for displaying basic data necessary in operation, an alarm display area for displaying a preset alarm mark related to details of alarm, and a failure display area for displaying a preset failure code related to details of failure;

Serial No. 10/549,814

KAS-263

Amendment

Responsive to Office Action dated October 21, 2008

a basic data display control unit for outputting display signals of the basic data based on the status variables detected by said detection means so as to display the basic data on said basic data display area of said usual screen;

an alarm display control unit for determining, based on the status variables detected by said detection means, whether the status variables indicate an alarmed state and outputting alarm display signals when the status variables are determined as indicating the alarmed state, so as to display the alarm mark on said alarm display area on condition that said usual screen is not shifted;

a failure display control unit for determining, based on the status variables detected by said detection means, whether the status variables indicate a failed state of said detection means and outputting failure display signals when the status variables are determined as indicating the failed state, so as to display the failure code on said failure display area on condition that said usual screen is not shifted; and

a screen display control unit for shifting said usual screen displayed in said display unit in response to manipulation by an operator to an alarm list screen for displaying a list of current and past alarms, or to a failure list screen for displaying a list of current and past failures.

2.(Currently Amended) The diagnostic information presenting apparatus for the construction machine according to Claim 1,

Serial No. 10/549,814

KAS-263

Amendment

Responsive to Office Action dated October 21, 2008

wherein said screen display control unit shifts said alarm list screen in response to manipulation by the operator who selects one of the alarm list items on said alarm list screen displayed in said display unit to a detailed information screen for displaying a location general drawing representing the location where the selected alarm is issued, or to a circuit diagram screen for displaying the occurrence location of the selected alarm on a circuit diagram

~~wherein said apparatus further comprises first storage means (2d, 2E) for storing combinations of snapshot menu items and the status variables made correspondent to the items per item in advance, and~~

~~—said control means (2c, 2E, 2G) outputs, to said display means (50), a menu display signal to display a list of a plurality of manual snapshot items stored in said first storage means (2d, 2E) in accordance with a selection command (X) from an operator, and acquires or extracts, in accordance with a selection command (X) from the operator to select one of the displayed list items, those of the status variable data, which are within a predetermined time and made correspondent to the selected item based on said combinations, from among the corresponding detected signals from said detection means (40-46, 47a, 47b, 47c), thereby storing those data in said first storage means (2d, 2E, 3).~~

3.(Currently Amended) The diagnostic information presenting apparatus for the construction machine according to Claim 1,

Serial No. 10/549,814

KAS-263

Amendment

Responsive to Office Action dated October 21, 2008

wherein said screen display control unit shifts said failure list screen in response to manipulation by the operator who selects one of the failure list items on said failure list screen displayed in said display unit to a detailed information screen for displaying a location general drawing representing the location where the selected failure is issued, or to a circuit diagram screen for displaying the occurrence location of the selected failure on a circuit diagram

~~wherein said apparatus further comprises second storage means (2d, 2F) for storing combinations of the alarm information or the failure information and the status variables made correspondent to the alarm information or the failure information in advance, and~~
~~when the alarm information or the failure information is inputted, said control means (2c, 2F) acquires or extracts those of the status variable data, which are within a predetermined time and made correspondent to the inputted information based on said combinations, from among the corresponding detected signals from said detection means (40-46, 47a, 47b, 47c), thereby storing those data in said second storage means (2d, 2F, 3).~~

4. (Currently Amended) The diagnostic information presenting apparatus for the construction machine according to Claim-21,

wherein the base data displayed on said base data display area of said usual screen is selected from engine revolution speed, radiator cooling water temperature, turbo-boosted pressure, fuel level, working oil temperature, atmospheric temperature, and battery voltage

Serial No. 10/549,814

KAS-263

Amendment

Responsive to Office Action dated October 21, 2008

~~wherein said control means (2c, 2E, 2F, 2G) outputs, to said display means (50), a reproduction display signal to reproduce and display changes of the status variable data which are stored in said first or second storage means (2d, 2E, 2F) and are within the predetermined time.~~

5. -15. (Canceled)